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1 [Fostering IPv6 migration through network quality differentials](#)
[Bach Quirin](#), [Yarik Hosanagar](#)

 June 2010 [SIGCOMM Computer Communication Review](#) , Volume 40 Issue 3

Publisher: ACM

 Full text available [PDF](#) (366 11 KB)

 Additional Information: [Full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 30, Downloads (Overall): 30, Citation Count: 0

Although IPv6 has been the next generation Internet protocol for nearly 15 years, new evidences indicate that transitioning from IPv4 to IPv6 is about to become a more pressing issue. This paper attempts to quantify if and how such a transition may unfold. ...

Keywords: IPv6, incentives, migration, quality

2 [IPv6 training in Europe](#)
[Franck Le Gall](#), [Fabrice Clari](#), [Caroline Garence](#), [Florence Falconetti Dumas](#)

 June 2010 [CompSysTech '10: Proceedings of the 11th International Conference on Computer Systems and Technologies and Workshop for PhD Students in Computing on International Conference on Computer Systems and Technologies](#)

 Publisher: ACM [Request Permissions](#)

 Full text available [PDF](#) (474 98 KB)

 Additional Information: [Full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 4, Downloads (Overall): 4, Citation Count: 0

The situation regarding the current curricula landscape (actors, offer and needs) for the Future Internet Protocol (IPv6) in Europe is analysed. The results target establishment of scenarios to evaluate how actions aimed at developing the IPv6 training ...

Keywords: Europe, ICT, IPv6, internet, training, training providers

3 [A clean state 4D approach to network control and management](#)
[Albert Greenberg](#), [Gill Hjalmyrsen](#), [David A. Maltz](#), [Andy Meyer](#), [Jennifer Rexford](#), [Geoffrey Xie](#), [Hong Yan](#), [Jian Zhao](#), [Hu Zhang](#)

 October 2005 [SIGCOMM Computer Communication Review](#) , Volume 35 Issue 5

Publisher: ACM

 Full text available [PDF](#) (313.74 KB)

 Additional Information: [Full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 181, Downloads (Overall): 1159, Citation Count: 52

Today's data networks are surprisingly fragile and difficult to manage. We argue that the root of these problems lies in the complexity of the control and management planes--the software and protocols coordinating network elements--and particularly the ...

Keywords: control, network management, robustness

4 [IP is dead, long live IP for wireless sensor networks](#)
[Jonathan W. Hu](#), [David E. Culler](#)

 November 2008 [SenSys '08: Proceedings of the 6th ACM conference on Embedded network sensor systems](#)

 Publisher: ACM [Request Permissions](#)

 Full text available [PDF](#) (1 56 MB)

 Additional Information: [Full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 573, Downloads (Overall): 1319, Citation Count: 7

A decade ago as wireless sensor network research took off many researchers in the field denounced the use of IP as inadequate and in contradiction to the needs of wireless sensor networking. Since then the field has matured, standard links have emerged, ...

Keywords: 6lowpan, internet, internetworking, ip, ipv6, media management, network architecture, sensor networks, wireless

5 [Proceedings of the 2002 ACM/IEEE conference on Supercomputing](#)
[Pascal Gettes](#), [Kathryn Kelley](#), [Daniel Reed](#)

 November 2002 [Supercomputing '02: Proceedings of the 2002 ACM/IEEE conference on Supercomputing](#)

Publisher: IEEE Computer Society Press

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This 15th Annual SC conference brings together a worldwide community to celebrate its achievements and envision the future of high performance computing, networking, and data technologies. Our theme, "From Terabytes to Insights," emphasizes the opportunity ...

6 [Overhead and performance study of the general internet signaling transport \(GIST\) protocol](#)

[Alexandra Cla](#), [Henning Schulzrinne](#), [Hannes Tscholten](#), [Christian Dinkels](#), [Dieter Hildebrand](#)
February 2008 **IEEE/ACM Transactions on Networking (TON)**, Volume 17 Issue 1

Publisher: IEEE Press [Request Permissions](#)

Full text available [PDF](#) (1.03 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 160, Downloads (Overall): 253, Citation Count: 0

The General Internet Signaling Transport (GIST) protocol is currently being developed as the base protocol component in the IETF Next Steps In Signaling (NSIS) protocol stack to support a variety of signaling applications. We present our study on the ...

7 [Mitigating application-level denial of service attacks on Web servers: A client-transparent approach](#)

[Mehmet Sarraf](#), [Arjun Guha](#), [Arjun Guha](#), [Arjun Guha](#)

July 2008 **Transactions on the Web (TWEB)**, Volume 2 Issue 3

Publisher: ACM [Request Permissions](#)

Full text available [PDF](#) (516.74 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 296, Downloads (Overall): 997, Citation Count: 0

Recently, we have seen increasing numbers of denial of service (DoS) attacks against online services and Web applications either for extortion reasons or for impairing and even disabling the competition. These DoS attacks have increasingly targeted the ...

Keywords: DoS Attacks, Web servers, client transparency, game theory

8 [Signalling analysis in integrated 4G networks](#)

[Hakima Chouchi](#), [Ivan Armioules](#), [Ivan Ganchev](#), [Máirtín O'Droma](#), [Nino Kubinidze](#)

January 2006 **International Journal of Network Management**, Volume 16 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available [PDF](#) (517.12 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 14, Downloads (Overall): 613, Citation Count: 0

Scarce radio resources and the ambition to increase the number of mobile customers with a guarantee of service are pushing mobile communication systems from homogeneous non-service convergent 2G and convergent-service 2.5G and 3G wireless systems to ...

9 [IP next generation overview](#)

[Robert M. Hinden](#)

June 1996 **Communications of the ACM**, Volume 39 Issue 6

Publisher: ACM [Request Permissions](#)

Full text available [PDF](#) (610.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 216, Downloads (Overall): 2079, Citation Count: 1

10 [FLIP: a flexible interconnection protocol for heterogeneous internetworking](#)

[Ignacio Solis](#), [Katia Obratzka](#)

August 2004 **Mobile Networks and Applications**, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available [PDF](#) (549.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 52, Downloads (Overall): 539, Citation Count: 1

This paper describes the Flexible Interconnection Protocol, or FLIP, whose main goal is to allow interconnection of heterogeneous devices with varying power, processing, and communication capabilities, ranging from simple sensors to more powerful computing ...

Keywords: flexible headers, heterogeneous networks, optimized headers, sensor networks

11 [Tarzan: a peer-to-peer anonymizing network layer](#)

[Michael J. Freedman](#), [Prabhat Mohr](#)

November 2002 **CCS '02: Proceedings of the 9th ACM conference on Computer and communications security**

Publisher: ACM [Request Permissions](#)

Full text available [PDF](#) (242.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 124, Downloads (Overall): 1467, Citation Count: 72

Tarzan is a peer-to-peer anonymous IP network overlay. Because it provides IP service, Tarzan is general-purpose and transparent to applications. Organized as a decentralized peer-to-peer overlay, Tarzan is fault-tolerant, highly scalable, and easy to ...

Keywords: IP tunnels, anonymity, cover traffic, distributed trust, mix-nets, overlay networks, peer-to-peer

12 [Robust header compression \(ROHC\) in next-generation network processors](#)

David E. Taylor, Andreas Heikensdorf, Andreas Döring, Gero Fittmann

August 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 4

Publisher: IEEE Press

Full text available [PDF](#) (849 58 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 58, Downloads (Overall): 717, Citation Count: 2

Robust Header Compression (ROHC) provides for more efficient use of radio links for wireless communication in a packet switched network. Due to its potential advantages in the wireless access area and the proliferation of network processors in access ...

Keywords: ASIC, ASIP, FPGA, ROHC, hardware assist, header compression, network processor, reconfigurable hardware

13 [Beyond technology: the missing pieces for QoS success](#)

J. Burgethaller, K. Dolzer, C. Hauser, J. Jähner, S. Junghans, C. Macián, W. Payer

August 2003 **RIPQoS '03: Proceedings of the ACM SIGCOMM workshop on Revisiting IP QoS: What have we learned, why do we care?**

Publisher: ACM [Request Permissions](#)

Full text available [PDF](#) (207 99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 70, Downloads (Overall): 1286, Citation Count: 3

Years of research on QoS architectures for IP networks have delivered sophisticated proposals, which have nevertheless not found broad commercial use. The reasons are not lack of technical soundness or insurmountable technological complexity, but insufficient ...

Keywords: Internetworking, Next Generation Internet, QoS

14 [A performance comparison of Mobile IPv6, Hierarchical Mobile IPv6, fast handovers for Mobile IPv6 and their combination](#)

Xavier Pérez-Cruz, Marc Torrent-Moreno, Hannes Hartenstein

October 2009 **SIGMOBILE Mobile Computing and Communications Review**, Volume 7 Issue 4

Publisher: ACM

Full text available [PDF](#) (210 37 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 337, Downloads (Overall): 4009, Citation Count: 13

Mobile IP, the current IETF proposal for IP mobility support, represents a key element for future *All-IP* wireless networks to provide service continuity while on the move within a multi-access environment. We conducted a performance evaluation ...

15 [Modelling layer 2 and layer 3 device bandwidths using B-node theory](#)

S. Cikara, S. P. Meil, B. T. Shew

January 2006 **ACSC '06: Proceedings of the 29th Australasian Computer Science Conference - Volume 48**, Volume 48

Publisher: Australian Computer Society, Inc.

Full text available [PDF](#) (269 35 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 24, Downloads (Overall): 242, Citation Count: 0

Modern computer networks contain an amalgamation of devices and technologies, with the performance exhibited by each central to digital communications. Varieties of methods exist to measure and/or predict these performance characteristics. "Rule-of-Thumb" ...

Keywords: B-Nodes, bandwidth, modelling, performance

16 [Developing network software and communications protocols towards the Internet of things](#)

Ramanan Sivasubramanian, Jerome Hanis

June 2009 **COMWARE '09: Proceedings of the Fourth International ICST Conference on Communication System software and middleware**

Publisher: ACM [Request Permissions](#)

Full text available [PDF](#) (894 74 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 272, Downloads (Overall): 272, Citation Count: 0

One of the most profound changes today is the increase in mobility of portable yet powerful wireless devices capable of communicating via several different kinds of wireless radio networks of varying link-level characteristics. This paper addresses how ...

Key words: network application frameworks, protocol engineering

17 Contact networking: a localized mobility system

 Casey Carter, Robin Kravets, Jean Tourrilhes

May 2003 **MobiSys '03: Proceedings of the 1st international conference on Mobile systems, applications and services**

Publisher: ACM  [Request Permissions](#)


Full text available  [PDF](#) (232.79 KB)

Additional Information: [Full citation](#), [abstract](#), [references](#), [related](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 38, Downloads (Overall): 357, Citation Count: 6

MobileIP, the standard for Internet mobility, enables transparent mobility for a mobile node, but requires communication to take a multihop path through the node's Home Agent. Although a user with a multiple-interface mobile node may desire the ability ...

18 The CHART system: a high-performance, fair transport architecture based on explicit-rate signaling

 Jack Brassil, Rick McQue, N. Rasmussen, Puneet Sharma, Praveen Yelagandula, Soledad Barreiros, Kevin P. Reed, Sridhar Venkatesh

January 2009 **SI GIPS Operating Systems Review**, Volume 43 Issue 1

Publisher: ACM

Full text available  [PDF](#) (678.24 KB)


Additional Information: [Full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 38, Downloads (Overall): 115, Citation Count: 0

TCP/IP is known to have poor performance under conditions of moderate to high packet loss (5%-20%) and end-to-end latency (20-200 ms). The CHART system, under development by HP and its partners under contract to the US Defense Advanced Research Projects ...


Key words: explicit-rate, flow-based routing, overlay, quality of service, virtualization

19 A 3GPP system architecture evolution virtualized experimentation infrastructure for mobility prototyping

 Miguel Gómez Rodríguez, Ferrn Galdán Márquez, Emilio J. Torres Mateos

March 2008 **TridentCom '08: Proceedings of the 4th International Conference on Testbeds and research infrastructures for the development of networks & communities**

Publisher: IOST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering)

Full text available  [PDF](#) (1.71 MB)

Additional Information: [Full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 116, Downloads (Overall): 241, Citation Count: 1

The 3GPP System Architecture Evolution (SAE) is a very attractive environment from the service provisioning perspective, thanks to the variety of access technologies and mobility features introduced. In such a diverse environment, experimentation infrastructures ...

Key words: 3GPP system architecture evolution, IMS, testbeds, virtualization

20 Identifying IPv6 network problems in the dual-stack world

 Kamilo Cho, Matthew Luckie, Bradley Hutterer

September 2004 **NetT '04: Proceedings of the ACM SIGCOMM workshop on Network troubleshooting: research, theory and operations practice meet malfunctioning reality**

Publisher: ACM  [Request Permissions](#)

Full text available  [PDF](#) (291.18 KB)

Additional Information: [Full citation](#), [abstract](#), [references](#), [related](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 103, Downloads (Overall): 981, Citation Count: 6

One of the major hurdles limiting IPv6 adoption is the existence of poorly managed experimental IPv6 sites that negatively affect the perceived quality of the IPv6 Internet. To assist network operators in improving IPv6 networks, we are exploring methods ...

Key words: IPv6, delay measurement, dual-stack, path analysis, path visualization

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